

I claim to have invented:

1. A system for filtering a liquid comprising:  
an inlet conduit,  
an outlet comprising one or more outlet conduits,  
a filter,  
a reservoir for receiving said liquid,  
one of said outlet conduits being positioned to receive liquid  
that overflows said reservoir, with such overflow bypassing said  
filter,

said filter having an inlet which receives liquid from said  
reservoir, filters such liquid, and feeds the filtered liquid to said  
outlet.

2. A system for filtering a liquid as defined by claim 1,  
having a chamber which contains said reservoir and said filter, said  
inlet entering said chamber and feeding said liquid to said  
reservoir, said one of said outlet conduits opening into said  
chamber,

said inlet conduit and said one of said outlet conduits  
providing a flow path, in said chamber, from said inlet conduit to  
said one outlet conduit, when said reservoir overflows.

3. A system for filtering a liquid as defined in claim 2, in which both of said inlet conduit and said one of said outlet conduits are at an elevation higher than the elevation of said reservoir, so that if the liquid in the chamber rises to a level above said reservoir the liquid may flow, above said reservoir, from said inlet conduit directly to said one of said outlet conduits.

4. A system for filtering a liquid as defined in claim 1, comprising:

a first chamber communicating with said inlet and an outlet conduit,

a second chamber being smaller than said first chamber,

the second chamber being located in said first chamber,

said second chamber having a bottom,

said filter being located in said second chamber,

said second chamber being fed with said liquid from said first chamber through said bottom, and feeding the filtered fluid to an outlet conduit.

5. A system for filtering a liquid, comprising:

a reservoir which receives the liquid to be filtered,

a filter mechanism comprising plural filter cells each of which filters a liquid,

said reservoir having a side thereof which is perforated to deliver the liquid to said filter cells, and

a manifold positioned to receive the liquid that passes through said filter mechanism.

6. A system for filtering a liquid as defined in claim 5, in which each of said cells have a vertical opening, each said vertical opening having filter material in it, said opening receiving liquid to be filtered from said reservoir, each cell having an outer barrier spaced outward from all filter material to form an output, said manifold receiving liquid from said outputs.

7. A system for filtering a liquid as defined in claim 6, in which said reservoir is at a higher elevation than said cells and feeding said liquid to said cells by the force of gravity.

8. A system for filtering a liquid as defined in claim 6, in which said reservoir has a first portion thereof below said cells and another portion thereof positioned at an elevation higher than the lower end of said cells so that gravity will force some of said liquid into said cells.

9. A system, for filtering a liquid comprising:  
a filter cell having a passageway, said passageway having a  
side wall in the form of a porous barrier that permits flow of said  
liquid therethrough, a second porous barrier extending around said  
side wall and spaced therefrom to form a cavity, a filtering media  
in said cavity, said second barrier allowing flow of said liquid  
therethrough,

a third barrier outside of and spaced from said second barrier  
thus forming a passageway through which liquid may pass, and

a source, of said liquid, that feeds the liquid into one of  
said passageways, through the cell and out the other passageway.

10. A system for filtering a liquid as defined in claim 9, in  
which said source feeds said liquid into said first passageway with  
said second passageway constituting an outlet for the filter.

11. A system for filtering a liquid as defined in claim 10,  
in which a first filtering media is in said first passageway and the  
filtering material in said cavity is a second filtering media, said  
first filtering media is coarser than said second filtering media.

12. A system for filtering a liquid, as defined in claim 9,  
in which said filter cell is vertical, said first passageway  
receiving said liquid at its upper end, said second passageway being  
open at its lower end to allow the filtered liquid to exit the cell.

13. A system for filtering a liquid as defined in claim 9, in which said cell is vertical and receives the liquid to be filtered, said first passageway being open at its lower end to receive the liquid under pressure, said cell having a closed bottom except for said open end of said first passageway, said second passageway being closed at its bottom and open at its top.

14. A filtering system as defined in claim 13, in which said cell is closed at its upper end except for the open end of said second passageway, and

an outlet conduit above said cell which receives said filtered liquid from said second passageway.